Data Table 1 - Java timing / Hamlet.txt									
Method	Insertio	n Time (in nanos	econds)	Recall	Time (in nanose	conds)			
Method	1	2	3	1	2	3			
Unbalanced BST Tree	2.124E+08	2.372E+08	2.103E+08	4.854E+06	4.782E+06	4.733E+06			
AVL Tree	5.970E+08	4.213E+08	5.485E+08	7.139E+06	9.131E+06	1.330E+07			
Splay Tree	3.014E+08	2.969E+08	3.150E+08	4.064E+06	4.067E+06	4.187E+06			
Hashtable	2.832E+08	2.731E+08	2.251E+08	1.232E+07	1.251E+07	7.435E+06			
Java Tree	4.102E+08	3.060E+08	3.116E+08	1.046E+07	1.762E+07	1.760E+07			
Java Hashtable	3.182E+08	2.428E+08	3.064E+08	1.236E+07	1.140E+07	1.172E+07			

Data Table 2 - Java timing / The New Atlantis.txt								
Method	Insertio	n Time (in nanos	econds)	Recall	Time (in nanose	conds)		
Method	1	2	3	1	2	3		
Unbalanced BST Tree	1.983E+08	1.401E+08	2.315E+08	4.319E+06	3.057E+06	4.098E+06		
AVL Tree	3.000E+08	2.384E+08	2.339E+08	5.086E+06	3.402E+06	3.474E+06		
Splay Tree	2.878E+08	2.751E+08	2.264E+08	4.516E+06	3.957E+06	3.982E+06		
Hashtable	2.620E+08	2.535E+08	1.681E+08	1.279E+07	1.076E+07	6.814E+06		
Java Tree	2.812E+08	2.793E+08	3.022E+08	3.304E+07	3.100E+07	1.122E+07		
Java Hashtable	2.499E+08	2.984E+08	2.607E+08	1.164E+07	1.092E+07	4.211E+07		

Data Table 3 - Java timing / War_and_peace.txt									
Method	Insertio	n Time (in nanos	econds)	Recall	Recall Time (in nanoseconds)				
ivietilou	1	2	3	1	2	3			
Unbalanced BST Tree	1.554E+09	1.105E+09	1.097E+09	1.644E+07	1.607E+07	1.413E+07			
AVL Tree	3.783E+09	3.922E+09	3.821E+09	1.764E+07	1.695E+07	1.730E+07			
Splay Tree	1.823E+09	1.769E+09	1.843E+09	1.490E+07	1.433E+07	1.756E+07			
Hashtable	1.324E+09	1.356E+09	1.334E+09	1.888E+07	1.873E+07	1.908E+07			
Java Tree	1.381E+09	1.323E+09	1.395E+09	4.523E+07	3.115E+07	3.232E+07			
Java Hashtable	1.228E+09	1.156E+09	1.081E+09	4.123E+07	5.327E+07	3.650E+07			

Data Table 4 - Java timing / War_and_peace_x9.txt									
Method	Insertio	n Time (in nanos	econds)	Recall	Time (in nanose	conds)			
Method	1	2	3	1	2	3			
Unbalanced BST Tree	7.298E+09	7.616E+09	7.588E+09	1.307E+07	9.978E+06	1.238E+07			
AVL Tree	1.080E+10	1.208E+10	1.077E+10	1.073E+07	1.325E+07	1.030E+07			
Splay Tree	1.232E+10	1.122E+10	1.126E+10	2.708E+07	1.245E+07	1.530E+07			
Hashtable	7.003E+09	6.884E+09	6.877E+09	1.877E+07	1.876E+07	1.851E+07			
Java Tree	9.471E+09	9.404E+09	9.880E+09	4.409E+07	2.936E+07	3.176E+07			
Java Hashtable	7.628E+09	7.613E+09	7.502E+09	5.459E+07	3.753E+07	5.357E+07			

Data Table 5 - Unix timing / Hamlet.txt								
Method	Syst	em Time (in seco	nds)					
Method	1	2	3					
Unbalanced BST Tree	0.800	0.816	0.820					
AVL Tree	1.876	1.892	1.996					
Splay Tree	1.016	0.956	0.964					
Hashtable	0.968	1.040	0.976					
Java Tree	0.988	1.084	1.068					
Java Hashtable	0.924	0.940	0.936					
Count.sh	0.584	0.588	0.572					
Count.pl	0.352	0.038	0.352					

Data Table 6 - Unix timing / The New Atlantis.txt							
Method	Syst	em Time (in seco	nds)				
Ivietilou	1	2	3				
Unbalanced BST Tree	0.716	0.696	0.688				
AVL Tree	1.553	1.328	1.600				
Splay Tree	0.956	0.876	0.828				
Hashtable	0.996	0.908	0.996				
Java Tree	0.788	0.956	0.944				
Java Hashtable	0.736	1.256	0.848				
Count.sh	0.280	0.292	0.284				
Count.pl	0.160	0.168	0.156				

Data Table 7 - Unix timing / War_and_peace.txt							
Method	Syst	em Time (in seco	nds)				
ivietilod	1	2	3				
Unbalanced BST Tree	2.456	2.432	2.420				
AVL Tree	6.964	7.336	6.980				
Splay Tree	3.148	3.080	3.104				
Hashtable	2.868	2.960	2.912				
Java Tree	3.112	2.992	3.196				
Java Hashtable	2.608	2.892	2.708				
Count.sh	10.209	5.048	4.972				
Count.pl	2.544	2.440	2.436				

Data Table 8 - Unix timing / War_and_peace_x9.txt							
Method	Insertio	n Time (in nanos	econds)				
Method	1	2	3				
Unbalanced BST Tree	8.545	10.705	10.337				
AVL Tree	14.773	14.605	14.969				
Splay Tree	12.449	11.993	11.957				
Hashtable	8.389	8.913	8.597				
Java Tree	13.125	13.265	13.009				
Java Hashtable	10.553	10.909	10.805				
Count.sh	44.347	47.679	47.127				
Count.pl	20.925	19.973	18.949				

	Data Table 9 - Java Timing								
Text	Har	nlet	The New	/ Atlantis	War and Peace		War and Peace x 9		
Method	Combined Time Average (in nanoseconds)	Normalized	Average Normalized						
Unbalanced BST Tree	2.248E+08	100%	1.938E+08	100%	1.268E+09	100%	7.512E+09	100%	100%
AVL Tree	5.321E+08	237%	2.614E+08	135%	3.859E+09	304%	1.122E+10	149%	206%
Splay Tree	3.085E+08	137%	2.673E+08	138%	1.827E+09	144%	1.160E+10	154%	1 <mark>43%</mark>
Hashtable	2.712E+08	121%	2.380E+08	123%	1.357E+09	107%	6.921E+09	92%	111%
Java Tree	3.578E+08	159%	3.127E+08	161%	1.403E+09	111%	9.585E+09	128%	1 <mark>40%</mark>
Java Hashtable	3.010E+08	134%	2.912E+08	150%	1.199E+09	95%	7.581E+09	101%	120%

	Data Table 10 - Unix Timing								
Text	Har	nlet	The New	v Atlantis	War an	d Peace	War and Peace x 9		
Method	User time (in seconds)	Normalized	User time (in seconds)	Normalized	User time (in seconds)	Normalized	User time (in seconds)	Normalized	Average Normalized
Unbalanced BST Tree	0.812	100%	0.700	100%	2.456	100%	8.545	100%	100%
AVL Tree	1.921	237%	1.494	213%	6.964	284%	14.773	173%	227%
Splay Tree	0.979	121%	0.887	127%	3.148	128%	12.449	146%	130%
Hashtable	0.995	122%	0.967	138%	2.868	117%	8.389	98%	119%
Java Tree	1.047	129%	0.896	128%	3.112	127%	13.125	154%	134%
Java Hashtable	0.933	115%	0.947	135%	2.608	106%	10.553	123%	120%
count.sh	0.581	72%	0.285	41%	10.209	416%	44.347	519%	262%
count.pl	0.247	30%	0.161	23%	2.544	104%	20.925	245%	100%

Kellen Donohue, Zach Stein kellend, steinz May 27, 2009 CSE 326 A

Project 3 - Benchmark Data

Data Table 11 - Combination Timing							
Method	Java Timing	Unix Timing	Overall Average				
Unbalanced BST Tree	100%	100%	100%				
AVL Tree	206%	227%	216%				
Splay Tree	143%	130%	137%				
Hashtable	111%	119%	115%				
Java Tree	140%	134%	137%				
Java Hashtable	120%	120%	120%				
count.sh	-	262%	262%				
count.pl	-	100%	100%				

